

## INTERNATIONAL SEARCH REPORT

PCT/IB 03/04536

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 H01L23/498 G06K19/077

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H01L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 041 395 A (STEFFEN FRANCIS) 20 August 1991 (1991-08-20)	1,2
Y	column 5, line 33 - line 39; figure 6	3,7,9
Y	US 4 460 825 A (HAGHIRI-TEHRANI YAHYA ET AL) 17 July 1984 (1984-07-17) column 5, line 9 - line 15; figures 6,14	3,7,9
A	"GSM TECHNICAL SPECIFICATION GSM 11.14 VERSION 5.7.0" EUROPEAN TELECOMMUNICATION STANDARD, XX, XX, 1 April 1998 (1998-04-01), page COMPLETE66, XP002089350 the whole document	8
A	DE 199 43 092 A (ORGA KARTENSYSTEME GMBH) 15 March 2001 (2001-03-15) figures 1,5	5,6

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

## \* Special categories of cited documents:

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Date of the actual completion of the international search

8 April 2004

Date of mailing of the international search report

19/04/2004

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5041395	A	20-08-1991	FR 2645680 A1	12-10-1990
			DE 69028334 D1	10-10-1996
			DE 69028334 T2	16-01-1997
			EP 0391790 A1	10-10-1990
			JP 2849594 B2	20-01-1999
			JP 3202400 A	04-09-1991
			US 5147982 A	15-09-1992
US 4460825	A	17-07-1984	DE 3123198 A1	08-07-1982
			BE 891283 A1	16-03-1982
			CH 654143 A5	31-01-1986
			FR 2495839 A1	11-06-1982
			GB 2090466 A , B	07-07-1982
			GB 2140207 A , B	21-11-1984
			IT 1145229 B	05-11-1986
			JP 1845865 C	25-05-1994
			JP 5004479 A	14-01-1993
			JP 5058920 B	27-08-1993
			JP 1710487 C	11-11-1992
			JP 3070374 B	07-11-1991
			JP 57122559 A	30-07-1982
			NL 8105344 A	01-07-1982
			SE 458244 B	06-03-1989
			SE 8107263 A	09-06-1982
			SE 503924 C2	30-09-1996
			SE 8803469 A	30-09-1988
DE 19943092	A	15-03-2001	DE 19943092 A1	15-03-2001
			AU 7506800 A	10-04-2001
			WO 0118750 A1	15-03-2001
			EP 1129431 A1	05-09-2001

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